

Abstract

A transportation vessel (20) to contain temperature sensitive goods (70) item loaded in a storage area (30) inside the transportation vessel comprises a temperature sensor (60) attached to the goods to sense the temperature of the goods within the storage area and an electronic tag (50) responsive to the temperature sensor to transmit a signal based upon the temperature. The goods are typically loaded into a box (40) and the sensor is in the same box attached to the surface area of the goods sensing goods temperature. System controls (120) monitoring at least one goods item comprises a transponder (110) to receive the signal, and a control panel (100) responsive to the transponder and an environmental control unit (80) that is responsive to the control panel. The transportation vessel also contains a rechargeable energy source (90) that is responsive to the control panel. The storage area of the transportation vessel is responsive to a door (10). Methods for sensing and controlling the goods temperature for at least one goods item are also disclosed.

